

**Project 1**

**Explore Weather Trends**

**By: Kholoud A. AlQahtani**

* + **Write a SQL query to extract the city level data. Export to CSV.**

select \*

from city\_data

where city\_data.city = 'Riyadh' ;

* + **Write a SQL query to extract the global data. Export to CSV.**

select \*

from global\_data

**What tools did you use?**

SQL query and MS Excel (data analysis Tool).

**Moving Averages in Spreadsheets**

I calculated the moving average by using 10-years MA. The data contains local and global temperature data from 1843 to 2013.

**Line chart with local and global temperature trend**

**Observations**

Riyadh and global temperatures compare over the past 160 years. We can see they all show a warming trend.

Riyadh temperature is warmer than global the long-term average.

Riyadh temperatures was decreased significantly at 10 degrees in 1844 and then return back to 25 degrees and then fluctuated over the years and it's began to increase gradually in 1993. By the end of 2013 temperatures degree reached at 27.8 degree.

Global , on the other hand, the trend been consistent over few hundred years . A gradual increment in the last two decades.